

STATEMENT OF BASIS

as required by LAC 33:IX.3109, for draft **Louisiana Pollutant Discharge Elimination System Permit No. LA0070556; AJ 18985; PER20050001** to discharge to waters of the State of Louisiana as per LAC 33:IX.2311.

The **permitting authority** for the Louisiana Pollutant Discharge Elimination System (LPDES) is:

Louisiana Department of Environmental Quality
Office of Environmental Services
P. O. Box 4313
Baton Rouge, Louisiana 70821-4313

- | | | |
|------|--------------------------|---|
| I. | THE APPLICANT IS: | Franklin Parish Police Jury
Abe Lincoln Wastewater Treatment Facility
6558 Main Street
Winnsboro, LA 71295 |
| II. | PREPARED BY: | Jim Bondy |
| | DATE PREPARED: | February 2, 2006 |
| III. | PERMIT ACTION: | reissue LPDES permit <u>LA0070556, AI 18985; PER20050001</u>

LPDES application received: October 6, 2005

LPDES permit issued: May 1, 1998
LPDES permit expired: April 30, 2003 |

IV. FACILITY INFORMATION:

- A. The application is for the discharge of treated sanitary wastewater from a publicly owned treatment works serving Abe Lincoln Sudivision and Horace White Subdivision.
- B. The permit application does not indicate the receipt of industrial wastewater.
- C. The facility is located on Louisiana Street, 1/2 mile south of LA Hwy 4 in Winnsboro, Franklin Parish.
- D. The treatment facility consists of an extended aeration sewer treatment plant. Disinfection is by chlorination.
- E. Outfall 001

Discharge Location: Latitude 32° 9' 17" North
Longitude 91° 41' 28" West

Description: treated sanitary wastewater

Design Capacity: 0.10 MGD

Type of Flow Measurement which the facility is currently using:
V-Notch Weir

V. RECEIVING WATERS:

The discharge is into an unnamed ditch; thence into Boggy Bayou; thence into Little Turkey Creek; thence into Turkey Creek Lake in segment 080906 of the Ouachita River Basin. This segment is listed on the 303(d) list of impaired waterbodies.

The designated uses and degree of support for Segment 080906 of the Ouachita River Basin are as indicated in the table below^{1/}:

Overall Degree of Support for Segment	Degree of Support of Each Use						
	Primary Contact Recreation	Secondary Contact Recreation	Propagation of Fish & Wildlife	Outstanding Natural Resource Water	Drinking Water Supply	Shell fish Propagation	Agriculture
Partial	Full	Full	Not Supported	N/A	N/A	N/A	N/A

^{1/}The designated uses and degree of support for Segment 080906 of the Ouachita River Basin are as indicated in LAC 33:IX.1123.C.3, Table (3) and the 2004 Water Quality Management Plan, Water Quality Inventory Integrated Report, Appendix A, respectively.

VI. ENDANGERED SPECIES:

The receiving waterbody, Subsegment 080906 of the Ouachita River Basin, is not listed in Section II.2 of the Implementation Strategy as requiring consultation with the U. S. Fish and Wildlife Service (FWS). This strategy was submitted with a letter dated October 21, 2005 from Watson (FWS) to Gautreaux (LDEQ). Therefore, in accordance with the Memorandum of Understanding between the LDEQ and the FWS, no further informal (Section 7, Endangered Species Act) consultation is required. It was determined that the issuance of the LPDES permit is not likely to have an adverse effect on any endangered or candidate species or the critical habitat. The effluent limitations established in the permit ensure protection of aquatic life and maintenance of the receiving water as aquatic habitat.

VII. HISTORIC SITES:

The discharge is from an existing facility location, which does not include an expansion beyond the existing perimeter. Therefore, there should be no potential effect to sites or properties on or eligible for listing on the National Register of Historic Places, and in accordance with the 'Memorandum of Understanding for the Protection of Historic Properties in Louisiana Regarding LPDES Permits' no consultation with the Louisiana State Historic Preservation Officer is required.

VIII. PUBLIC NOTICE:

Upon publication of the public notice, a public comment period shall begin on the date of publication and last for at least 30 days thereafter. During this period, any interested persons may submit written comments on the draft permit and may request a public hearing to clarify issues involved in the permit decision at this Office's address on the first page of the statement of basis. A request for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing.

Public notice published in:

Local newspaper of general circulation

Office of Environmental Services Public Notice Mailing List

For additional information, contact:

Jim Bondy
Water and Waste Permits Division
Department of Environmental Quality
Office of Environmental Services
P. O. Box 4313
Baton Rouge, Louisiana 70821-4313

IX. PROPOSED PERMIT LIMITS:

Subsegment 080906, Turkey Creek – from Turkey Creek Cutoff to Turkey Creek Lake, is listed on LDEQ's Final 2004 303(d) list as impaired for organic enrichment/low DO. Although TMDL's for the Ouachita River Basin were due to be completed by 2001, a TMDL has not yet been developed for organic enrichment/low DO for this waterbody. A TMDL will be scheduled following completion of the EPA Consent Decree TMDL schedule. A reopener clause will be established in the permit to allow for the requirement of more stringent effluent limitations and requirements as imposed by a future TMDL.

BOD₅ limits are specified in the permit to protect against the potential for discharges of oxygen consuming pollutants and organic materials that could cause instream DO problems.

Final Effluent Limits:

OUTFALL 001

Final limits shall become effective on the effective date of the permit and expire on the expiration date of the permit.

Effluent Characteristic	Monthly Avg. (lbs./day)	Monthly Avg.	Weekly Avg.	Basis
BOD ₅	8.3	10 mg/l	15 mg/l	Limits are set in accordance with the Statewide Sanitary Effluent Limitations Policy (SSELP) for facilities of this treatment type and size and the previous permit.
TSS	12.5	15 mg/l	23 mg/l	Limits are set in accordance with the Statewide Sanitary Effluent Limitations Policy (SSELP) for facilities of this treatment type and size and the previous permit.

Other Effluent Limitations:**1) Fecal Coliform**

The discharge from this facility is into a water body which has a designated use of Primary Contact Recreation. According to LAC 33:IX.1113.C.5.b.i, the fecal coliform standards for this water body are 200/100 ml and 400/100 ml. Therefore, the limits of 200/100 ml (Monthly Average) and 400/100 ml (Weekly Average) are proposed as Fecal Coliform limits in the permit. These limits are being proposed through Best Professional Judgement in order to ensure that the water body standards are not exceeded, and due to the fact that existing facilities have demonstrated an ability to comply with these limitations using present available technology.

2) pH

According to LAC 33:IX.3705.A.1., POTW's must treat to at least secondary levels. Therefore, in accordance with LAC 33:IX.5905.C., the pH shall not be less than 6.0 standard units nor greater than 9.0 standard units at any time.

3) Solids and Foam

There shall be no discharge of floating solids or visible foam in other than trace amounts in accordance with LAC 33:IX.1113.B.7.

X.**PREVIOUS PERMITS:**

LPDESS Permit No. LA0070556: Issued: May 1, 1998

Expired: April 30, 2003

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>		<u>Monitoring Requirements</u>	
	<u>Daily Avg.</u>	<u>Daily Max.</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow	Report	Report	Continuous	Recorder
BOD ₅	10 mg/l	15 mg/l	2/month	Grab
TSS	15 mg/l	23 mg/l	2/month	Grab
Fecal Coliform Colonies	200	400	2/month	Grab

XI.**ENFORCEMENT AND SURVEILLANCE ACTIONS:****A) Inspections**

A review of the files indicates that the most recent inspection was performed by LDEQ on May 27, 2003. The inspection report noted numerous permit limit excursions and the failure of the facility to file noncompliance reports for several of the excursions. The matter was referred to enforcement.

B) Compliance and/or Administrative Orders

A review of the files indicates the following most recent enforcement actions administered against this facility:

LDEQ Issuance:

Docket # - WE-CN-01-0389

Date Issued - November 27, 2002

Findings of Fact:

1. The facility has operation and maintenance deficiencies.
2. The facility has numerous permit limit excursions.

Order:

1. The facility was ordered to take all steps necessary to meet and maintain compliance with LPDES Permit LA0070556.
2. The facility was ordered to submit missing DMRs.
3. The facility was ordered to submit a complete written report that shall include a detailed description of the circumstances of the cited violations and the actions taken to achieve compliance with the compliance order.

C) DMR Review

A review of the discharge monitoring reports for the period beginning April 1, 2003 through March 31, 2005 has revealed the following violations:

Month	Parameter	DMR Reported Value	Permit Limit
April 2003	BOD ₅ , Monthly Avg.	12 mg/l	10 mg/l
	TSS, Monthly Avg.	24.6 mg/l	15 mg/l
	TSS, Weekly Avg.	24.6 mg/l	23 mg/l
May 2003	BOD ₅ , Monthly Avg.	62 mg/l	10 mg/l
	BOD ₅ , Weekly Avg.	62 mg/l	15 mg/l
June 2003	BOD ₅ , Monthly Avg.	18 mg/l	10 mg/l
	BOD ₅ , Weekly Avg.	18 mg/l	15 mg/l
	TSS, Monthly Avg.	15 mg/l	15 mg/l
	Fecal Coliform, Monthly Avg.	700 colonies/ml	200 colonies/ml
	Fecal Coliform, Weekly Avg.	700 colonies/ml	400 colonies/ml
July 2003	BOD ₅ , Monthly Avg.	25 mg/l	10 mg/l
	BOD ₅ , Weekly Avg.	25 mg/l	15 mg/l
	TSS, Monthly Avg.	37.4 mg/l	15 mg/l
	TSS, Weekly Avg.	37.4 mg/l	23 mg/l
September 2003	BOD ₅ , Monthly Avg.	19 mg/l	10 mg/l
	BOD ₅ , Weekly Avg.	19 mg/l	15 mg/l
	TSS, Monthly Avg.	37.2 mg/l	15 mg/l
	TSS, Weekly Avg.	37.2 mg/l	23 mg/l
November 2003	BOD ₅ , Monthly Avg.	41.6 mg/l	10 mg/l
	BOD ₅ , Weekly Avg.	41.68 mg/l	15 mg/l
December 2003	BOD ₅ , Monthly Avg.	28 mg/l	10 mg/l
	BOD ₅ , Weekly Avg.	28 mg/l	15 mg/l
	BOD ₅ (mass), Monthly Avg.	6.75 lb/day	5.84 lb/day
	TSS, Monthly Avg.	22 mg/l	15 mg/l
January 2004	BOD ₅ , Monthly Avg.	22.9 mg/l	10 mg/l
	BOD ₅ , Weekly Avg.	22.9 mg/l	15 mg/l
	TSS, Monthly Avg.	51 mg/l	15 mg/l
	TSS, Weekly Avg.	51 mg/l	23 mg/l
February 2004	BOD ₅ , Monthly Avg.	10 mg/l	10 mg/l
	BOD ₅ , Weekly Avg.	15 mg/l	15 mg/l
	BOD ₅ (mass), Monthly Avg.	9.76 lb/day	5.84 lb/day
	TSS, Monthly Avg.	15 mg/l	15 mg/l

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	TSS, Weekly Avg.	23 mg/l	23 mg/l
	TSS (mass), Monthly Avg.	16.59 lb/day	8.76 lb/day
March 2004	BOD ₅ , Monthly Avg.	13.5 mg/l	10 mg/l
	TSS, Monthly Avg.	33.6 mg/l	15 mg/l
	TSS, Weekly Avg.	33.6 mg/l	23 mg/l
April 2004	BOD ₅ , Monthly Avg.	15 mg/l	10 mg/l
	TSS, Monthly Avg.	30 mg/l	15 mg/l
	TSS, Weekly Avg.	30 mg/l	23 mg/l
May 2004	BOD ₅ , Monthly Avg.	19.5 mg/l	10 mg/l
	BOD ₅ , Weekly Avg.	19.5 mg/l	15 mg/l
	TSS, Monthly Avg.	33.2 mg/l	15 mg/l
	TSS, Weekly Avg.	33.2 mg/l	23 mg/l
June 2004	BOD ₅ , Monthly Avg.	20.4 mg/l	10 mg/l
	BOD ₅ , Weekly Avg.	20.4 mg/l	15 mg/l
	BOD ₅ (mass), Monthly Avg.	8.59 lb/day	5.84 lb/day
July 2004	BOD ₅ , Monthly Avg.	21.3 mg/l	10 mg/l
	BOD ₅ , Weekly Avg.	21.3 mg/l	15 mg/l
	TSS, Monthly Avg.	19 mg/l	15 mg/l
August 2004	BOD ₅ , Monthly Avg.	42 mg/l	10 mg/l
	BOD ₅ , Weekly Avg.	42 mg/l	15 mg/l
	TSS, Monthly Avg.	26.1 mg/l	15 mg/l
	TSS, Weekly Avg.	26.1 mg/l	23 mg/l
September 2004	BOD ₅ , Monthly Avg.	32 mg/l	10 mg/l
	BOD ₅ , Weekly Avg.	32 mg/l	15 mg/l
	TSS, Monthly Avg.	38.9 mg/l	15 mg/l
	TSS, Weekly Avg.	38.9 mg/l	23 mg/l
October 2004	BOD ₅ , Monthly Avg.	32 mg/l	10 mg/l
	BOD ₅ , Weekly Avg.	32 mg/l	15 mg/l
	TSS, Monthly Avg.	15.7 mg/l	15 mg/l
November 2004	BOD ₅ , Monthly Avg.	116 mg/l	10 mg/l
	BOD ₅ , Weekly Avg.	116 mg/l	15 mg/l
	BOD ₅ (mass), Monthly Avg.	7.84 lb/day	5.84 lb/day
	TSS, Monthly Avg.	30.6 mg/l	15 mg/l
	TSS, Weekly Avg.	30.6 mg/l	23 mg/l
January 2005	BOD ₅ , Monthly Avg.	30.5 mg/l	10 mg/l
	BOD ₅ , Weekly Avg.	30.5 mg/l	15 mg/l
	TSS, Monthly Avg.	50.4 mg/l	15 mg/l
	TSS, Weekly Avg.	50.4 mg/l	23 mg/l
February 2005	BOD ₅ , Monthly Avg.	16.7 mg/l	10 mg/l
	BOD ₅ , Weekly Avg.	16.7 mg/l	15 mg/l
	BOD ₅ (mass), Monthly Avg.	12.05 lb/day	5.84 lb/day
March 2005	TSS, Monthly Avg.	15 mg/l	15 mg/l
	TSS, Weekly Avg.	23 mg/l	23 mg/l
	TSS (mass), Monthly Avg.	16.4 lb/day	8.76 lb/day

XII.

ADDITIONAL INFORMATION:

Please be aware that the Department will be conducting a TMDL in Subsegment 080906 of the Ouachita River Basin. The Department of Environmental Quality reserves the right to impose more stringent discharge limitations and/or additional restrictions as a result of the TMDL. Therefore, prior to upgrading or expanding this facility, the permittee should contact the Department to determine the status of the work being done to establish future effluent limitations and additional permit conditions.

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Final effluent loadings (i.e. lbs/day) have been established based upon the permit limit concentrations and the design capacity of 0.10 MGD.

Effluent loadings are calculated using the following example:

$$\text{BOD: } 8.34 \text{ lb/gal} \times 0.10 \text{ MGD} \times 10 \text{ mg/l} = 8.34 \text{ lb/day}$$

At present, the **Monitoring Requirements, Sample Types, and Frequency of Sampling** as shown in the permit are standard for facilities of flows between 0.1 and 0.5 MGD.

Effluent Characteristics

Monitoring Requirements

<u>Measurement</u>	<u>Sample</u>
<u>Frequency</u>	<u>Type</u>

Flow	Continuous	Recorder
BOD ₅	2/month	Grab
Total Suspended Solids	2/month	Grab
Fecal Coliform Bacteria	2/month	Grab
pH	2/month	Grab

Pretreatment Requirements

Based upon consultation with LDEQ pretreatment personnel, general pretreatment language will be used due to the lack of either an approved or required pretreatment program.

XIII

TENTATIVE DETERMINATION:

On the basis of preliminary staff review, the Department of Environmental Quality has made a tentative determination to reissue a permit for the discharge described in this Statement of Basis.

XIV

REFERENCES:

Louisiana Water Quality Management Plan / Continuing Planning Process, Vol. 8, "Wasteload Allocations / Total Maximum Daily Loads and Effluent Limitations Policy," Louisiana Department of Environmental Quality, 2005.

Louisiana Water Quality Management Plan / Continuing Planning Process, Vol. 5, "Water Quality Inventory Section 305(b) Report," Louisiana Department of Environmental Quality, 1998.

Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations, Chapter 11 - "Louisiana Surface Water Quality Standards," Louisiana Department of Environmental Quality, 2004.

Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations, Subpart 2 - "The LPDES Program," Louisiana Department of Environmental Quality, 2004.

Low-Flow Characteristics of Louisiana Streams, Water Resources Technical Report No. 22, United States Department of the Interior, Geological Survey, 1980.

Index to Surface Water Data in Louisiana, Water Resources Basic Records Report No. 17, United States Department of the Interior, Geological Survey, 1989.

LPDES Permit Application to Discharge Wastewater, Franklin Parish Police Jury, Abe Lincoln Wastewater Treatment Facility, October 6, 2005.